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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims

Claim 1 (currently amended): A rocking seat control apparatus, which comprises:

a moveable seat supported and having a magnetic member attached thereto;

a solenoid means for bi-directionally attracting said magnetic member repetitively to cause

the seat to move in a positive direction and a negative direction alternately and thereby to be

rocked;

an amplitude measuring means for measuring an amplitude of the seat being rocked and a

rocking motion of the seat;

an amplitude damping factor measuring means responsive to displacements in the positive

and negative directions of the seat being rocked for measuring an extent of a damping factor of said

amplitude caused while the seat is being rocked; and

a solenoid energizing means for energizing said solenoid means for a time period in which

the seat is being rocked traveling travels a distance corresponding to the amplitude multiplied by

the that is a product of said measured rocking motion and said measured extent of damping factor

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of amplitude.

Claim 2 (currently amended): A rocking seat control apparatus as set forth in claim 1,

characterized in that wherein said magnetic member comprises a pair of magnetic sub-members

attached to the seat and whose mid point is positioned displaced from a mid point of said solenoid

means by a predetermined distance.

Claim 3 (currently amended): A rocking seat control apparatus as set forth in claim 1 or 2,

which further comprises:

a first light emitter disposed below a path of the seat being rocked;

a second light emitter united to said first light emitter;

a first light reflector including a plurality of light reflector plates attached to the seat as

arranged in a row and spaced apart from one another across a predetermined spacing in a first

direction in which the seat is rocked for reflecting light emitted from said first light emitter;

a second light reflector including a plurality of light reflector plates attached to the seat as

arranged in a row and spaced apart from one another across a predetermined spacing in a second

direction parallel to said first direction for reflecting light emitted from said second light emitter,

said light reflector plates of the first light reflector being deviated in position from said light

reflector plates of the second light reflector by half a width of each of said light reflector plates of

the first light reflector;

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a first light receiver mounted united to said first light emitter for receiving light reflected

back from said first light reflector;

a second light receiver mounted united to said second light emitter for receiving light

reflected back from said second light reflector;

a change of rocking direction detecting means responsive to a light receiving pattern of said

first and second light receivers for detecting a reverse motion of the seat being rocked; and

a seat amplitude measuring means responsive to numbers of light reception signals issued

by said first and second light receivers for measuring an amplitude of the seat.

Claim 4 (currently amended): A rocking seat control apparatus as set forth in claim 3,

characterized in that wherein said light reflector plates of first light reflector and those of second

light reflector are equal in width and spacing to each other, and the spacing across which

successive light reflector plates of each of said first and second light reflectors are spaced apart is

equal to the width of each of the reflector plates of said first and second light reflectors.

Claim 5 (currently amended): A rocking seat control apparatus, which comprises:

a moveable seat supported and having a magnetic member attached thereto;

a solenoid means energizable to bi-directionally attract said magnetic member repetitively,

thereby rocking the seat;

a drive circuit for drivingly energize said solenoid means; and

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a 1/f spectrum fluctuation computing circuit adapted to compute a target value corresponding to a target rocking motion of the seat being rocked-in a mode of 1/f-type spectrum fluctuation and to enter said target value into said drive circuit.

Claim 6 (currently amended): A rocking seat control apparatus as set forth in claim 5, characterized in that wherein said 1/f-type spectrum fluctuation computing circuit includes an initial value input means adapted to be entered with initial values of said 1/f-type spectrum fluctuation.

Claim 7 (currently amended): A rocking seat control apparatus as set forth in claim 5 or claim 6, characterized in that it further includes A rocking seat control apparatus, which comprises:

a solenoid means energizable to bi-directionally attract said magnetic member repetitively, thereby rocking the seat;

a drive circuit for drivingly energizing solenoid means;

a moveable seat having a magnetic member;

a 1/f spectrum fluctuation computing circuit adapted to compute a target value corresponding to a target rocking motion of the seat in a mode of 1/f-type spectrum fluctuation and to enter said target value into said drive circuit; and

a target rocking motion input means for producing a target value corresponding to a target rocking motion; and a switching means for selectively connecting one of said 1/f-type spectrum

fluctuation computing circuit and said target rocking swing input means to said drive circuit.

Claim 8 (new): A rocking seat control apparatus, which comprises:

a moveable seat having a magnetic member;

a solenoid means energizable to bi-directionally attract said magnetic member repetitively, thereby rocking the seat;

a drive circuit for drivingly energizing solenoid means;

a 1/f spectrum fluctuation computing circuit adapted to compute a target value corresponding to a target rocking motion of the seat in a mode of 1/f-type spectrum fluctuation and to enter said target value into said drive circuit; and

a target rocking motion input means for producing a target value corresponding to a target rocking motion; and a switching means for selectively connecting one of said 1/f-type spectrum fluctuation computing circuit and said target rocking swing input means to said drive circuit,

wherein said 1/f-type spectrum fluctuation computing circuit includes an initial value input means adapted to be entered with initial values of said 1/f-type spectrum fluctuation.

Claim 9 (new): A rocking seat control apparatus as in any one of claims 5, 7 or 8, wherein said moveable seat comprises:

a seat;

a fixed frame supporting the seat via a coupling rod, in a manner capable to rock and sway

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the seat;

an attachment frame provided on the seat;

a rod provided on the attachment frame, having the magnetic member; and

wherein the solenoid means is fixed on the fixed frame such that the rod penetrates the solenoid means.